IRON AND STEEL ENGINEER INDEX FOR 1942

Herewith is presented the index of all authors, papers, and discussions published in the IRON AND STEEL ENGINEER for the year 1942

LIST OF AUTHORS

A

ADELSON, J. S. — *Manufacture of Electric Resistance Welded Pipe and Tubing,* August, 1942, Page 33.
ALEXANDER, E. H.— *Developments in Control Equipment and Devices,* December, 1942, Page 56.
ANGEL, H. H.— *Special Applications of Steel Plant Control,* December, 1942, Page 50.
ARMSTRONG, PAUL S.— *Electrolytic Protection of Water Systems,* October, 1942, Page 34.

B

BAILEY, C. A.— *Oil Filtration and Reclamation,* May, 1942, Page 61.
BETZ, P. L.— *Performance of Various Gases in the Oxygen Cutting Process,* July, 1942, Page 64.
BEYERLE, W. H.— *Brushes and Brush Application,* October, 1942, Page 40.
BLOOM, F. S.— *Fuel Application in Metallurgical Heating Furnaces,* February, 1942, Page 64.
BLUMBERG, H. S.— *Alloy Steel Cladding and Pressure Vessels,* October, 1942, Page 70.
BROWN, C. E.— *Substitute Coatings for Tin Plate,* July, 1942, Page 30.
BROWN, W. T.— *Methods of Increasing Production of Existing Steel Plant Equipment — Coke Plants,* January, 1942, Page 51
BURR, W. H.— *Developments in the Iron and Steel Industry during 1941,* January, 1942, Page 26.
BURT, F. R.— *Adjustable Voltage Skip Hoist Control,* August, 1942, Page 38.

C

CAMPBELL, J. D.— *Special Electrical Applications in the Steel Industry,* February, 1942, Page 78.
COOPER, J. H.— *Welding in Cold Strip Processing,* July, 1942, Page 46.

D

DITCHMAN, J. P.— *Steel Mill Lighting in Wartime,* September, 1942, Page 128.
DUNMIRE, R. P.— *The Influence of Water on the Lubricating Value of Mill Bearing Oil,* November, 1942, Page 30.
DUNMIRE, R. P.— *Maintenance of Insulating Oils,* December, 1942, Page 42.
DUNNE, R. VD.— *Economic Aspects of Pre-Compression Refrigerated Dry Blast,* July, 1942, Page 56.

E

ERBE, J. RAYMOND — *IR Drop Compensation on Cleaning Lines,* December, 1942, Page 53.
ESS, T. J.— *Atlantic Steel Company,* March, 1942, Page 45.
ESS, T. J.— *Copperweld Steel Company's Alloy Plant,* May, 1942, Page 35.
ESS, T. J.— *Dominion Foundries and Steel, Ltd.,* April, 1942, Page 37.
ESS, T. J.— *Steel Company of Canada, Ltd.,* April, 1942, Page 69.
ESS, T. J.— *Steel's Bid for Victory,* September, 1942, Page 51.
EVANS, D. N.— *Diesel Engine Lubrication,* July, 1942, Page 38.

F

FLEMING, W. J.— *Is Maintenance and Design a Partnership?* November, 1942, Page 58.
FOUNTAIN, L. L.— *Low Voltage Distribution Systems in Steel Mills,* November, 1942, Page 50.
FOUNTAIN, L. L., and H. A. TRAVERS — *Grounded D-C Systems for Steel Mills,* March, 1942, Page 68
FRANZ, A. F.— *Increased Production from Existing Plate Mill Equipment,* January, 1942, Page 74.
FULLER, ERNEST — *The Sintering Plant at Great Lakes Steel Corporation,* May, 1942, Page 27.

H

HALSTEAD, HOWARD — *Temperature Control of Galvanizing Kettles,* November, 1942, Page 64.
HARBAUGH, M. D.— *Survey of the Iron Ore, Pig Iron and Scrap Situation,* November, 1942, Page 26.
HORKO, W. N.— *Increased Production from Existing Billet Heating Furnaces,* January, 1942, Page 70.

J

JENNINGS, C. J. and A. B. WHITE — *Electric Welding Machines,* June, 1942, Page 50.

K

KENTIS, GEORGE — *Slitting — An Old Problem Modernized,* February, 1942, Page 30.
KENYON, A. F.— *Electrical Drives for a 110 Inch* Reversing *Plate Mill,* November, 1942, Page 73.
KULP, R. K.— *Woody Fractures,* February, 1942, Page 39.

L

LIAS, L. P.— *Methods of Increasing Production of Existing Steel Plant Equipment — Bessemer and Duplexing,* January, 1942, Page 60.
LOHREY, C. R.— *Production of Benzol Products by the Continuous Process,* August, 1942, Page 46.
LORENZI, OTTO DE — *Stoker Application for Combination Firing of Boilers,* March, 1942, Page 74.
LOUGHREY, D. R.— *The Design, Construction and Operation of a Bessemer Converting Mill,* March, 1942, Page 28.

M

McKEE, ARTHUR G.— *Some Aspects of the Proposed Steel Expansion Program,* January, 1942, Page 82.
McLOUGHLIN, T. J.— *An Organization of Fuel Department Personnel and Practice,* March, 1942, Page 61.
MALBORN, JOSEPH — *Methods of Increasing Production of Existing Steel Plant Equipment — Mill Equipment,* January, 1942, Page 63.
MAWHINNEY, M. H.— *Modern Bloom and Billet Heating Furnaces,* May, 1942, Page 70.
MILBURN, L. R.— *Mercury-Arc Rectifier vs Motor-Generator,* December, 1942, Page 28.
MONTGOMERY, T. B.— *The Temper Mill,* April, 1942, Page 90.
MORGAN, M. F.— *The Design and Operation of a Modern Sintering Plant,* April, 1942, Page 103.

P

J. F. PELLEY and JOHN WORTH — *Tin Substitutes Prove Satisfactory in Bronzes,* October, 1942, Page 44.
PERRY, W. A.— *Systematic Inspection and Maintenance of Steel Plant Electrical Equipment,* September, 1942, Page 113.
PFEFFER, G. C.— *Maintenance of Hydraulic Equipment,* October, 1942, Page 43.
PFEIL, A. L.— *A New Hammered Resistance Welding Process,* August, 1942, Page 42.
POOLE, H. W.— *Motor Applications and Power Requirements for Strip Processing Lines,* September, 1942, Page 33.
PORTER, C. J.— *Electrical Drives for a 110 Inch Reversing Plate Mill,* November, 1942, Page 73.
PRICE, C. A.— *Electrical Drives for a 110 Inch Reversing Plate Mill,* November, 1942, Page 73.

R

RESWICK, MAURICE — *New Developments in Lubricants for Steel Plants,* October, 1942, Page 55.
RICE, O. R.— *Blast Furnace Gas Cleaning,* December, 1942, Page 66.
RIDDLE, L. E.— *Methods of Increasing Production of Existing Steel Plant Equipment — Blast Furnaces,* January, 1942, Page 55.
ROSENSTIEHL, F. E.— *Design of Lubricants for Mechanized Lubrication,* March, 1942, Page 83.

R v. 19 Jan.-June 1942

S

SEE, W. G.— *Submerged Combustion Heating for Pickling Baths,* June, 1942, Page 62.
W. A. SMILEY — *Application and Control of Capacitors on Multi-phase Loads,* October, 1942, Page 26.
SMITH, E. W. P.— *Advanced Methods of Arc Welding,* May, 1942, Page 31.
STOLTZ, G. E.— *Report of Field Tests on IR Drop Compensation,* May, 1942, Page 51.
STONE, M. D.— *Electrolytic Tinplate,* February, 1942, Page 90.
SUCCOP, J. A.— *Backing-Up Rolls,* September, 1942, Page 42.
SWARTZ, F. C.— *Methods of Increasing Production of Existing Steel Plant Equipment — Open Hearths,* January, 1942, Page 57.

T

THEISINGER, W. G.— *Welding Nickel, Monel and Inconel Clad Steels,* October, 1942, Page 75.
TRAVERS, H. A. and L. L. FOUNTAIN — *Grounded D-c Systems for Steel Mills,* March, 1942, Page 68.
TUCK, DAVIS H.—*Blackout Lighting — A Discussion of British and American Practice,* March, 1942, Page 81.
TUCK, D. H.— *Protective Lighting for Industrial Plants,* July, 1942, Page 42.

U

ULLMAN, FRED E.— *Recovery and Preparation of Steel Scrap from Steel-Making Furnace Slag and Refuse,* August, 1942, Page 27.

V

V. C. VAALER — *Recent Advances in the Control of Multi-Fuel Fired Furnace,* September, 1942, Page 134.
VAN ARTSDALEN, G. A.— *Increased Production from Existing Arc Melting Furnaces,* January, 1942, Page 78.
VAN DER HOEVEN, B. J. C.— *Effect of Rate of Operation in the Coke Plant,* June, 1942, Page 68.
VAN PELT, A. A.— *Maintenance of Ball and Roller Bearings,* October, 1942, Page 65.

W

WEIKEL, R. A.— *Maintenance of Instruments and Controls in the Steel Plant,* April, 1942, Page 115.
WHITCOMB, ARTHUR J.— *New Developments in Blast Furnace Charging,* June, 1942, Page 29.
WHITE, A. B. and C. J. JENNINGS — *Electric Welding Machines,* June, 1942, Page 50.
WHITE, H. A.— *Developments in Non-Ferrous Bearing Metals,* October, 1942, Page 46.
WILCOX, H. L.—*Trends in the Design of D-c Control,* November 1942, Page 38.
WINLACK, G. D.— *Scarfing High Carbon and Alloy Steels,* April, 1942, Page 26.
WORTH, JOHN and PELLY, J. F.— *Tin Substitutes Prove Satisfactory in Bronzes,* October, 1942, Page 44.
WRIGHT, F. A.— *Modern Construction of A-c Motor Control,* November, 1942, Page 44.
WRIGHT, R. H.— *Engineering for Increased Production in the Steel Industry,* September, 1942, Page 123.

Z

ZIMMERMAN, J. H.— *Oxy-Acetylene Defense Developments,* June, 1942, Page 76.

LIST OF SUBJECTS

A

Abstracts of Papers to be Presented, Association of Iron and Steel Engineers Annual Meeting and Engineering Conference — September, 1942, Page 142.
A-c Motor Control, Modern Construction of — F. A. WRIGHT, November, 1942, Page 44.
Adjustable Voltage Skip Hoist Control — F. R. BURT, August, 1942, Page 38.
Advanced Methods of Arc Welding — By E. W. P. SMITH, May, 1942, Page 31.
Alloy Plant, Copperweld Steel Company's — By T. J. ESS, May, 1942, Page 35.
Alloy Steel Cladding and Pressure Vessels — By H. S. BLUMBERG, October, 1942, Page 70.
Alloy Steels, Scarfing High Carbon and — By G. D. WINLACK, April, 1942, Page 26.
A New Hammered Resistance Welding Process — By A. L. PFEIL, August, 1942, Page 42.
Application and Control of Capacitors on Multi-phase Loads — By W. A. SMILEY, October, 1942, Page 26.
Applications of Steel Plant Control, Special — By H. H. ANGEL, December, 1942, Page 50.
Arc Melting Furnaces, Increased Production from Existing — By G. A. VAN ARTSDALEN, January, 1942, Page 78.
Arc Welding, Advanced Methods of — By E. W. P. SMITH, May, 1942, Page 31.
Aspects of the Proposed Steel Expansion Program, Some — By ARTHUR G. McKEE, January, 1942, Page 82.
Atlantic Steel Company — By T. J. ESS, March, 1942, Page 45.

B

Backing-Up Rolls — By J. A. SUCCOP, September, 1942, Page 42.
Ball and Roller Bearings, Maintenance of — By A. A. Van PELT, October, 1942, Page 65.
Bearing Metals, Developments in Non-Ferrous — By H. A. WHITE, October, 1942, Page 46.
Bearing Oil, The Influence of Water on the Lubricating Value of Mill — by R. P. DUNMIRE, November, 1942, Page 30.
Bearings, Maintenance of Ball and Roller — By A. A. VAN PELT October, 1942, Page 65.
Benzol Products by the Continuous Process, Production of — By C. R. LOHREY, August, 1942, Page 46.
Bessemer and Duplexing, Methods of Increasing Production of Existing Steel Plant Equipment — By L. P. LIAS, January, 1942, Page 60.
Bessemer Converting Mill, The Design, Construction and Operation of a — By D. R. LOUGHREY, March, 1942, Page 28.
Billet Heating Furnaces, Increased Production from Existing — By W. N. HORKO, January, 1942, Page 70.
Billet Heating Furnaces, Modern Bloom and — By M. H. MAWHINNEY, May, 1942, Page 70.
Blackout Lighting — A Discussion of British and American Practice — By DAVIS H. TUCK, March, 1942, Page 81.
Blast Furnace Charging, New Developments in — By ARTHUR J. WHITCOMB, June, 1942, Page 29.
Blast Furnace Gas Cleaning — By O. R. RICE, December, 1942, Page 66.
Blast Furnaces, Methods of Increasing Production of Existing Steel Plant Equipment — By L. E. RIDDLE, January, 1942, Page 55.
Bloom and Billet Heating Furnaces, Modern — By M. H. MAWHINNEY, May, 1942, Page 70.
Boilers, Stoker Application for Combination Firing of — By OTTO DE LORENZI, March, 1942, Page 74.
Bronzes, Tin Substitutes Prove Satisfactory in — By J. F. PELLY and JOHN WORTH, October, 1942, Page 44.
Brushes and Brush Application — By W. H. BEYERLE, October, 1942, Page 40.

C

Capacitors on Multi-phase Loads, Application and Control of — By W. A. SMILEY, October, 1942, Page 26.
Carbon and Alloy Steels, Scarfing High — By G. D. WINLACK, April, 1942, Page 26.
Charging, New Developments in Blast Furnace — By ARTHUR J. WHITCOMB, June 1942, Page 29.
Cleaning Lines, IR Drop Compensation on — By J. R. ERBE, December, 1942, Page 53.
Cleaning, Blast Furnace Gas — By O. R. RICE, December, 1942, Page 66.
Coatings for Tin Plate, Substitute — Presented by C. E. BROWN, July, 1942, Page 30.
Coke Plant, Effect of Rate of Operation in the — By B. J. C. VAN DER HOEVEN, June, 1942, Page 68.
Coke Plants, Methods of Increasing Production of Existing Steel Plant Equipment — By W. T. BROWN, January, 1942, Page 51.
Cold Strip Processing, Welding in — By J. H. COOPER, July, 1942, Page 46.
Combination Firing of Boilers, Stoker Application for — By OTTO DE LORENZI, March, 1942, Page 74.
Compensation on Cleaning Lines, IR Drop — By J. R. ERBE, December, 1942, Page 53.
Control Equipment and Devices, Developments in — By E. H. ALEXANDER, December, 1942, Page 56.
Controls in the Steel Plant, Maintenance of Instruments and — By R. A. WEIKEL, April, 1942, Page 115.
Converting Mill, The Design, Construction and Operation of a Bessemer — By D. R. LOUGHREY, March, 1942, Page 28.
Copperweld Steel Company's Alloy Plant — By T. J. ESS, May, 1942, Page 35.

Tech

Cranes for Steel Mill Service, Specification for Electric Overhead Traveling — August, 1942, Page CS-1.

D

D-c Control, Trends in the Design of — By H. L. WILCOX, November, 1942, Page 38.
D-c Systems for Steel Mills, Grounded — By L. L. FOUNTAIN and H. A. TRAVERS, March, 1942, Page 68.
Defense Development, Oxy-Acetylene — By J. H. ZIMMERMAN, June, 1942, Page 76.
Design and Operation of a Modern Sintering Plant, The — By M. F. MORGAN, April, 1942, Page 103.
The Design, Construction and Operation of a Bessemer Converting Mill — By D. R. LOUGHREY, March, 1942, Page 28.
Design of Lubricants for Mechanized Lubrication — By F. E. ROSENSTIEHL, March, 1942, Page 83.
Developments in Control Equipment and Devices — By E. H. ALEXANDER, December, 1942, Page 56.
Developments in Non-Ferrous Bearing Metals—By H. A. WHITE, October, 1942, Page 46.
Developments in the Iron and Steel Industry During 1941 — By W. H. BURR, January, 1942, Page 26.
Diesel Engine Lubrication — By D. N. EVANS, July, 1942, Page 38.
Discussion: Advanced Methods of Arc Welding — Presented by A. W. STEED, A. B. WHITE, J. S. McKEIGHAN, and E. W. P. SMITH, May, 1942, Page 34.
Discussion: Alloy Steel Cladding and Pressure Vessels and Welding, Nickel, Monel and Inconel — Presented by N. C. BYE, W. H. JOHNSON, C. M. THOMPSON, BASIL OSMIN, STUART B. MATHEWS, MARTIN J. CONWAY, H. S. BLUMBERG and W. G. THEISINGER.
Discussion: The Design and Operation of a Modern Sintering Plant — Presented by J. C. MURRAY, M. F. MORGAN, G. W. HEWITT, K. G. LeVISEUR, H. A. BYRNS, E. W. SHALLOCK, GUY WEHR, C. P. BETZ, W. T. BROWN, R. A. LINDGREN, T. W. PLANTE, C. M. MYERS, and F. F. FOSS, April, 1942, Page 105.
Discussion: The Design, Construction and Operation of a Bessemer Converting Mill — Presented by J. S. FULTON, H. T. BOWMAN, F. F. FOSS, and H. L. McFEATERS, March, 1942, Page 37.
Discussion: Design of Lubricants for Mechanized Lubrication — Presented by N. C. BYE, H. B. CLEAVELAND, L. F. COFFIN, C. R. HAND, and F. E. ROSENSTIEHL, March, 1942, Page 88.
Discussion: Developments in Non-Ferrous Metals — Presented by L. F. COFFIN, H. A. WHITE, E. W. TREXLER, L. C. SENTANCE, October, 1942, Page 52.
Discussion: Diesel Engine Lubrication — Presented by T. R. MOXLEY and D. N. EVANS, July, 1942, Page 41.
Discussion: Economic Aspects of Pre-Compression Refrigerated Dry Blast — Presented by J. A. CLAUSS, R. VD. DUNNE, L. L. LEWIS, W. J. REES, and G. R. McDERMOTT, July, 1942, Page 59.
Discussion: Effect of Rate of Operation in the Coke Plant — Presented by W. T. BROWN, M. D. WALD, W. H. COLLISON, WILLIAM R. PENDRY, C. P. BETZ, B. J. C. VAN DER HOEVEN, and H. V. LAUER, June, 1942, Page 74.
Discussion: Electrical Drives for a 110 Inch Reversing Plate Mill — Presented by C. C. WALES and A. F. KENYON, November, 1942, Page 82.
Discussion: Electrolytic Tinplate — Presented by CARL G. JONES, M. D. STONE, C. LYNN, H. P. MUNGER, C. J.. DUBY, R. J. WEAN, A. L. MILTON, A. H. BRISSE, A. L. NIELSEN, and J. C. McCURLEY, February, 1942, Page 96.
Discussion: Fuel Application in Metallurgical Heating Furnaces — Presented by R. I. GUMAER, F. S. BLOOM, E. E. CALLINAN, J. F. TILTON, E. C. McDONALD, A. J. FISHER, J. W. PERCY, and O. LUTHERER, February, 1942, Page 74.
Discussion: Grounded D-c Systems for Steel Mills — Presented by F. W. CRAMER, W. A. PERRY, L. V. BLACK, I. N. TULL, H. R. MIDDLEBROOK, and H. A. TRAVERS, March, 1942, Page 71.
Discussion: Increased Production from Existing Arc Melting Furnaces — Presented by F. C. SCHOEN, L. V. BLACK, G. O. VAN ARTSDALEN, and H. D. ESTERLY, January, 1942, Page 80.
Discussion: Increased Production from Existing Billet Heating Furnaces — Presented by A. J. FISHER, HOWARD HALSTEAD, and C. M. THOMPSON, January, 1942, Page 73.
Discussion: Increased Production from Existing Plate Mill Equipment — Presented by N. C. NYE, W. M. WARDLE, H. H. ANGEL, W. G. WILSON, A. J. FISHER, and A. F. FRANZ, January, 1942, Page 77.
Discussion: Low Voltage Distribution Systems in Steel Mills — Presented by G. E. STOLTZ, H. L. WILCOX, L. L. FOUNTAIN, E. L. ANDERSON, H. G. BARNETT, and B. M. JONES, November, 1942, Page 55.
Discussion: Maintenance of Instruments and Controls in the Steel Plant — Presented by C. L. McGRANAHAN, O. J. LEONE, L. A. DEESZ, C. L. DUDLEY, W. P. HILL, L. F. COFFIN, J. L. MILLER, R. A. WEIKEL, and R. I. GUMAER, April, 1942, Page 119.
Discussion: Methods of Increasing Production of Existing Steel Plant Equipment — Coke Plants, Blast Furnaces, Open Hearths, Bessemer and Duplexing, and Mill Equipment — Presented by JOHN EVERETTS, JR., E. K. MILLER, L. E. RIDDLE, M. A. MAYERS, RUDOLPH JANATA, and L. E. FEISNER, January, 1942, Page 66.
Discussion: Modern Bloom and Billet Heating Furnaces — Presented by E. E. CALLINAN, M. H. MAWHINNEY, E. T. MORTSON, and W. H. DAILEY, May, 1942, Page 76.
Discussion: Motor Applications and Power Requirements for Strip Processing Lines — Presented by R. A. GEUDER, H. W. POOLE, R. H. ELLIS, and J. R. ERBE, September, 1942, Page 41.
Discussion: New Developments in Lubricants for Steel Plants — Presented by T. N. FRITSCH, M. RESWICK, S. C. GRIFFITH, S. J. SOROKA and R. J. GRAHAM, October, 1942, Page 61.
Discussion: Oil Filtration and Reclamation — Presented by C. E. S. EDDIE, MAURICE RESWICK, GEORGE H. KAUFFELD, JR., F. E. ROSENSTIEHL, and C. A. BAILEY, May, 1942, Page 68.
Discussion: An Organization of Fuel Department Personnel and Practice — Presented by J. L. MILLER, A. J. FISHER, C. J. WYROUGH, T. J. McLOUGHLIN, E. T. W. BAILEY, and E. E. CALLINAN, March, 1942, Page 66.
Discussion: Oxy-Acetylene Defense Developments — Presented by MARTIN J. CONWAY and J. H. ZIMMERMAN, June, 1942, Page 82.
Discussion: Performance of Various Gases in the Oxygen Cutting Process — Presented by N. C. BYE, L. F. COFFIN, F. C. SCHOEN, A. J. FISHER, M. J. CONWAY, and P. B. BETZ, July, 1942, Page 71.
Discussion: Production of Benzol Products by the Continuous Process — Presented by L. R. MILBURN, C. R. LOHREY, R. S. ERICSON, R. B. WINTER, A. R. BORDEN, and W. H. COLLISON.
Discussion: Recent Advances in the Control of Multi-Fuel Furnaces — Presented by J. R. GREEN, M. J. BOHO, and M. J. BRADLEY, September, 1942, Page 138.
Discussion: Report of Field Tests on IR Drop Compensation — Presented by F. MOHLER, A. M. MacCUTCHEON, and G. E. STOLTZ, May, 1942, Page 58.
Discussion: Scarfing High Carbon and Alloy Steels — Presented by RUSSELL HUNT, G. D. WINLACK, M. J. CONWAY, J. G. COOPER, and H. M. FLAHERTY, April, 1942, Page 34.
Discussion: Slitting — An Old Problem Modernized — Presented by R. A. GEUDER, H. W. POOLE, G. A. CALDWELL, and GEORGE KENTIS, February, 1942, Page 35.
Discussion: Some Aspects of the Proposed Steel Expansion Program Presented by E. M. SOARES, K. D. TRUE, E. C. McDONALD, ARTHUR G. McKEE, G. E. STOLTZ, M. D. HARBAUGH, F. W. JESSOP, C. G. BIGELOW, E. E. THUM' A. M. MacCUTCHEON, EMERSON FINDLEY, C. H. TATE, A. R. DAVIS, and B. W. CORRADO, January, 1942, Page 88.
Discussion: Stoker Application for Combination Firing of Boilers — Presented by L. F. COFFIN, OTTO DE LORENZI, E. W. TREXLER, L. A. DEESZ, O. P. BURR, and W. P. HILL, March, 1942, Page 78.
Discussion: Submerged Combustion Heating for Pickling Baths — Presented by PAUL LEISS, E. B. RESSLER, W. G. SEE, O. LUTHERER, H. L. ANTHONY, and L. A. KLINE, June, 1942, Page 66.
Discussion: Substitute Coatings for Tin Plate — Presented by E. W. HOPPER, CHARLES H. MANION, JOHN M. READ, E. T. LORIG, L. F. COFFIN, C. E. BROWN, W. J. HENNESSEY, J. A. HELBLING, BERNARD RAHILLY, P. N. BOSSART, W. H. MANDY, FRANK E. JACQUES, A. J. BERDIS, J. F. EDNIE, L. I. FIELD, GEORGE H. RENDELL, W. G. CRANE, LESLIE BERNICK and A. H. BRISSE, July, 1942, Page 33.
Discussion: Systematic Inspection and Maintenance of Steel Plant Electrical Equipment — Presented by F. S. WHITE, T. E. HUGHES, W. A. PERRY, E. C. BRANDT, C. L. McGRANAHAN, A. M. KRIEGER, W. A. SMILEY, A. W. McAULY, and J. J. BOOTH, September, 1942, Page 120.

Discussion: Temperature Control of Galvanizing Kettles — Presented by MARTIN J. CONWAY, HOWARD HALSTEAD, W. N. HORKO, D. LEWIS, O. B. PYLE, C. S. STOUFFER, A. J. FISHER, November, 1942, Page 69.
Discussion: The Temper Mill — Presented by J. S. MURRAY, A. F. KENYON, CHARLES H. MANION, and T. B. MONTGOMERY, April, 1942, Page 101.
Discussion: Welding in Cold Strip Processing — Presented by H. W. NEBLETT, H. H. SHAKELY, J. H. COOPER, E. B. RESSLER, J. A. REA, STANLEY GRAND-GIRARD, and C. H. JENNINGS, July, 1942, Page 53.
Dominion Foundries and Steel, Ltd. — By T. J. ESS, April, 1942, Page 37.
Dry Blast, Economic Aspects of Pre-Compression Refrigerated — Presented by R. VD. DUNNE, July, 1942, Page 56.
Duplexing, Methods of Increasing Production of Existing Steel Plant Equipment — Bessemer and — By L. P. LIAS, January, 1942, Page 60.

E

Economic Aspects of Pre-Compression Refrigerated Dry Blast — By R. VD. DUNNE, July, 1942, Page 56.
Effect of Rate of Operation in the Coke Plant — By B. J. C. VAN DER HOEVEN, June, 1942, Page 68.
Electric Welding Machines — By C. J. JENNINGS and A. B. WHITE, June, 1942, Page 50.
Electrical Applications in the Steel Industry, Special — By J. D. CAMPBELL, February, 1942, Page 78.
Electrical Drives for a 110 Inch Reversing Plate Mill — By C. J. PORTER, C. A. PRICE, and A. F. KENYON, November, 1942, Page 73.
Electrical Equipment, Inspection and Maintenance of Steel Plant — By W. A. PERRY, September, 1942, Page 113.
Electrolytic Protection of Water Systems — By PAUL S. ARMSTRONG, October, 1942, Page 34.
Electrolytic Tinplate — By M. D. STONE, February, 1942, Page 90.
Engineering for Increased Production in the Steel Industry — By R. H. WRIGHT, September, 1942, Page 123.
Existing Arc Melting Furnaces, Increased Production from — By G. A. VAN ARTSDALEN, January, 1942, Page 78.
Existing Billet Heating Furnaces, Increased Production from — By W. N. HORKO, January, 1942, Page 70.
Existing Plate Mill Equipment, Increased Production from — By A. F. FRANZ, January, 1942, Page 74.
Expansion Program, Some Aspects of the Proposed Steel — By ARTHUR G. McKEE, January, 1942, Page 82.

F

Filtration and Reclamation, Oil — By C. A. BAILEY, May, 1942, Page 61.
Firing of Boilers, Stoker Application for Combination — By OTTO DE LORENZI, March, 1942, Page 74.
Fractures, Woody — By R. K. KULP, February, 1942, Page 39.
Fuel Application in Metallurgical Heating Furnaces — By F. S. BLOOM, February, 1942, Page 64.
Fuel Department Personnel and Practice, An Organization of — By T. J. McLOUGHLIN, March, 1942, Page 61.
Furnace, Recent Advances in the Control of Multi-Fuel Fired — By V. C. VAALER, September, 1942, Page 134.
Furnaces, Fuel Application in Metallurgical Heating — By F. S. BLOOM, February, 1942, Page 64.
Furnaces, Increased Production from Existing Arc Melting — By G. A. VAN ARTSDALEN, January, 1942, Page 78.
Furnaces, Increased Production from Existing Billet Heating — By W. N. HORKO, January, 1942, Page 70.
Furnaces, Modern Bloom and Billet Heating — By M. H. MAWHINNEY, May, 1942, Page 70.

G

Galvanizing Kettles, Temperature Control of — By HOWARD HALSTEAD, November, 1942, Page 64.
Gas Cleaning, Blast Furnaces — By O. R. RICE, December, 1942, Page 66.
Gases in the Oxygen Cutting Process, Performance of Various — By P. L. BETZ, July, 1942, Page 64.
Great Lakes Steel Corporation, The Sintering Plant at — By ERNEST FULLER, May, 1942, Page 27.
Grounded D-c Systems for Steel Mills — By L. L. FOUNTAIN and H. A. TRAVERS, March, 1942, Page 68.

H

Hydraulic Equipment, Maintenance of — By G. C. PFEFFER, October, 1942, Page 43.

I

Inconel Clad Steels, Welding, Nickel, Monel and — By W. G. THEISINGER, October, 1942, Page 75.
Increased Production from Existing Arc Melting Furnaces — By G. A. VAN ARTSDALEN, January, 1942, Page 78.
Increased Production from Existing Billet Heating Furnaces — By W. N. HORKO, January, 1942, Page 70.
Increased Production from Existing Plate Mill Equipment — By A. F. FRANZ, January, 1942, Page 74.
Influence of Water on the Lubricating Value of Mill Bearing Oil — By R. P. DUNMIRE, November, 1942, Page 30.
Inspection and Maintenance of Steel Plant Electrical Equipment, Systematic — By W. A. PERRY, September, 1942, Page 113.
Instruments and Controls in the Steel Plant, Maintenance of — By R. A. WEIKEL, April, 1942, Page 115.
Insulating Oils, Maintenance of — By R. P. DUNMIRE, December, 1942, Page 42.
IR Drop Compensation, Report of Field Tests on — By G. E. STOLTZ, May, 1942, Page 51.
IR Drop Compensation on Cleaning Lines — By J. R. ERBE, December, 1942, Page 53.
Iron Ore, Pig Iron and Scrap Situation, Survey of the — By M. D. HARBAUGH, November, 1942, Page 26.
Is Maintenance and Design a Partnership? — By W. J. FLEMING, November, 1942, Page 58.

L

Lighting — A Discussion of British and American Practice, Blackout — By DAVIS H. TUCK, March, 1942, Page 81.
Lighting for Industrial Plants, Protective — By D. H. TUCK, July, 1942, Page 42.
Lighting in Wartime, Steel Mill — By J. P. DITCHMAN, September, 1942, Page 128.
Low Voltage Distribution Systems in Steel Mills — By L. L. FOUNTAIN, November, 1942, Page 50.
Lubricants for Mechanized Lubrication, Design of — By F. E. ROSENSTIEHL, March, 1942, Page 83.
Lubricants for Steel Plants, New Developments — By MAURICE RESWICK, October, 1942, Page 55.
Lubrication, Design of Lubricants for Mechanized — By F. E. ROSENSTIEHL, March, 1942, Page 83.
Lubrication, Diesel Engine — By D. N. EVANS, July, 1942, Page 38.

M

Maintenance and Design a Partnership?, Is—By W. J. FLEMING, November, 1942, Page 58.
Maintenance of Ball and Roller Bearings — By A. A. VAN PELT, October, 1942, Page 65.
Maintenance of Hydraulic Equipment — By C. G. PFEFFER, October, 1942, Page 43.
Maintenance of Instruments and Controls in the Steel Plant — By R. A. WEIKEL, April, 1942, Page 115.
Maintenance of Insulating Oils — By R. P. DUNMIRE, December, 1942, Page 42.
Manufacture of Electric Resistance Welded Pipe and Tubing — By J. S. ADELSON, August, 1942, Page 33.
Mercury Arc Rectifier vs Motor-Generator — By L. R. MILBURN, December, 1942, Page 28.
Metallurigcal Heating Furnaces, Fuel Application in — By F. S. BLOOM, February, 1942, Page 64.
Methods of Increasing Production of Existing Steel Plant Equipment — Bessemer and Duplexing — By L. P. LIAS, January, 1942, Page 60.
Methods of Increasing Production of Existing Steel Plant Equipment — Blast Furnaces — By L. E. RIDDLE, January, 1942, Page 55.
Methods of Increasing Production of Existing Steel Plant Equipment — Coke Plants — By W. T. BROWN, January, 1942, Page 51.
Methods of Increasing Production of Existing Steel Plant Equipment — Mill Equipment — By JOSEPH MALBORN, January, 1942, Page 63.
Methods of Increasing Production of Existing Steel Plant Equipment — Open Hearths — By F. C. SWARTZ, January, 1942, Page 57.
Mill Equipment, Methods of Increasing Production of Existing Steel Plant Equipment — By JOSEPH MALBORN, January, 1942, Page 63.
Modern Bloom and Billet Heating Furnaces — By M. H. MAWHINNEY, May, 1942, Page 70.
Modern Construction of A-c Motor Control — By F. A. WRIGHT, November, 1942, Page 44.
Monel and Inconel Clad Steels, Welding Nickel — By W. G. THEISINGER, October, 1942, Page 75.
Motor Applications and Power Requirements for Strip Processing Lines — By H. W. POOLE, September, 1942, Page 33.

N

New Developments in Blast Furnace Charging — By ARTHUR J. WHITCOMB, June, 1942, Page 29.
New Developments in Lubricants for Steel Plants — By MAURICE RESWICK, October, 1942, Page 55.
Nickel, Monel and Inconel Clad Steels, Welding — By W. G. THEISINGER, October, 1942, Page 75.
Non-Ferrous Bearing Metals, Developments in — By H. A. WHITE, October, 1942, Page 46.

O

Oil Filtration and Reclamation — By C. A. BAILEY, May, 1942, Page 61.
Oils, Maintenance of Insulating — By R. P. DUNMIRE, December, 1942, Page 42.
Open Hearths, Methods of Increasing Production of Existing Steel Plant Equipment — By F. C. SWARTZ, January, 1942, Page 57.
Operation of a Modern Sintering Plant, The Design and — By M. F. MORGAN, April, 1942, Page 103.
An Organization of Fuel Department Personnel and Practice — By T. J. McLOUGHLIN, March, 1942, Page 61.
Oxy-Acetylene Defense Developments — By J. H. ZIMMERMAN, June, 1942, Page 76.

P

Performance of Various Gases in the Oxygen Cutting Process — By P. L. BETZ, July, 1942, Page 64.
Personnel and Practice, An Organization of Fuel Department — By T. J. McLOUGHLIN, March, 1942, Page 61.
Pickling Baths, Submerged Combustion Heating for — By W. G. SEE, June, 1942, Page 62.
Pig Iron and Scrap Situation, Survey of the Iron Ore — By M. D. HARBAUGH, November, 1942, Page 26.
Plate Mill, Electrical Drives for a 110 Inch Reversing — By C. J. PORTER, C. A. PRICE, and A. F. KENYON, November, 1942, Page 73.
Plate Mill Equipment, Increased Production from Existing — By A. F. FRANZ, January, 1942, Page 74.
Pre-Compression Refrigerated Dry Blast, Economic Aspects of — By R. VD. DUNNE, July, 1942, Page 56.
Pressure Vessels, Alloy Steel Cladding — By H. S. BLUMBERG, October, 1942, Page 70.
Production in the Steel Industry, Engineering for Increased — By R. H. WRIGHT, September, 1942, Page 123.
Production of Benzol Products by the Continuous Process — By C. R. LOHREY, August, 1942, Page 46.
Production of Existing Steel Plant Equipment — Bessemer and Duplexing, Methods of Increasing — By L. P. LIAS, January, 1942, Page 60.
Production of Existing Steel Plant Equipment — Blast Furnaces, Methods of Increasing — By L. E. RIDDLE, January, 1942, Page 55.
Production of Existing Steel Plant Equipment — Coke Plants, Methods of Increasing — By W. T. BROWN, January, 1942, Page 51.
Production of Existing Steel Plant Equipment — Mill Equipment, Methods of Increasing — By JOSEPH MALBORN, January, January, 1942, Page 63.
Production of Existing Steel Plant Equipment — Open Hearths, Methods of Increasing — By F. C. SWARTZ, January, 1942, Page 57.
Proposed Steel Expansion Program, Some Aspects of the — By ARTHUR G. McKEE, January, 1942, Page 82.
Protective Lighting for Industrial Plants — By D. H. TUCK, July, 1942, Page 42.

R

Recent Advances in the Control of Multi-Fuel Fired Furnace — By V. C. VAALER, September, 1942, Page 134.
Reclamation, Oil Filtration and — By C. A. BAILEY, May, 1942, Page 61.
Recovery and Preparation of Steel Scrap from Steel-Making Furnace Slag and Refuse — By FRED E. ULLMAN, August, 1942, Page 27.
Rectifier vs Motor-Generator, Mercury Arc — By L. R. MILBURN, December, 1942, Page 28.
Report of Field Tests on IR Drop Compensation — By G. E. STOLTZ, May, 1942, Page 51.
Reversing Plate Mill, Electrical Drives for a 110 Inch — By C. J. PORTER, C. A. PRICE, and A. F. KENYON, November, 1942, Page 73.
Rolls, Backing-Up — By J. A. SUCCOP, September, 1942, Page 42.

S

Scarfing High Carbon and Alloy Steels — By G. D. WINLACK, April, 1942, Page 26.
Sintering Plant at Great Lakes Steel Corporation, The — By ERNEST FULLER, May, 1942, Page 27.
Sintering Plant, The Design and Operation of a Modern — By M. F. MORGAN, April, 1942, Page 103.
Skip Hoist Control, Adjustable Voltage — By F. R. BURT, August, 1942, Page 38.
Slitting—An Old Problem Modernized—By GEORGE KENTIS, February, 1942, Page 30.
Some Aspects of the Proposed Steel Expansion Program — By ARTHUR G. McKEE, January, 1942, Page 82.
Special Applications of Steel Plant Control — By H. H. ANGEL, December, 1942, Page 50.
Special Electrical Applications in the Steel Industry — By J. D. CAMPBELL, February, 1942, Page 78.
Specifications for Electric Overhead Traveling Cranes for Steel Mill Service — August, 1942, Page CS-1.
Steel Cladding and Pressure Vessels, Alloy — By H. S. BLUMBERG, October, 1942, Page 70.
Steel Company of Canada, Ltd. — By T. J. ESS, April, 1942, Page 69.
Steel Mill Lighting in Wartime — By J. P. DITCHMAN, September, 1942, Page 128.
Steel Plant Control, Special Applications of — By H. H. ANGEL, December, 1942, Page 50.
Steel Plants, New Developments in Lubricants for — By MAURICE RESWICK, October, 1942, Page 55.
Steel Scrap from Steel-Making Furnace Slag and Refuse, Recovery and Preparation of — By FRED E. ULLMAN, August, 1942, Page 27.
Steel's Bid for Victory — By T. J. ESS, September, 1942, Page 51.
Steels, Welding, Nickel, Monel and Inconel Clad — By W. G. THEISINGER, October, 1942, Page 75.
Stoker Application for Combination Firing of Boilers — By OTTO DE LORENZI, March, 1942, Page 64.
Strip Processing Lines, Motor Applications and Power Requirements — By H. W. POOLE, September, 1942, Page 33.
Submerged Combustion Heating for Pickling Baths — By W. G. SEE, June, 1942, Page 62.
Substitute Coatings for Tin Plate — By C. E. BROWN, July, 1942, Page 30.
Substitutes Prove Satisfactory in Bronzes, Tin — By J. F. PELLY and JOHN WORTH, October, 1942, Page 44.
Survey of the Iron Ore, Pig Iron and Scrap Situation — By M. D. HARBAUGH, November, 1942, Page 26.
Systematic Inspection and Maintenance of Steel Plant Electrical Equipment—By W. A. PERRY, September, 1942, Page 113.

T

Temperature Control of Galvanizing Kettles — By HOWARD HALSTEAD, November, 1942, Page 64.
Temper Mill, The — By T. B. MONTGOMERY, April, 1942, Page 90.
Timplate, Electrolytic — By M. D. STONE, February, 1942, Page 90.
Tin Plate, Substitute Coatings for — By C. E. BROWN, July, 1942, Page 30.
Tin Substitutes Prove Satisfactory in Bronzes — By J. F. PELLY and JOHN WORTH, October, 1942, Page 44.
Trends in the Design of D-c Control — By H. L. WILCOX, November, 1942, Page 38.

V

Vessels, Alloy Steel Cladding and Pressure — By H. S. BLUMBERG, October, 1942, Page 70.
Voltage Distribution Systems in Steel Mills, Low — By L. L. FOUNTAIN, November, 1942, Page 50.

W

Water on the Lubricating Value of Mill Bearing Oil, The Influence of — By R. P. DUNMIRE, November, 1942, Page 30.
Water Systems, Electrolytic Protection of — By PAUL S. ARMSTRONG, October, 1942, Page 34.
Welded Pipe and Tubing, Manufacture of Electric Resistance — By J. S. ADELSON, August, 1942, Page 33.
Welding, Advanced Methods of Arc — By E. W. P, SMITH. May, 1942, Page 31.
Welding in Cold Strip Processing — By J. H. COOPER, July, 1942, Page 46.
Welding Machines, Electric — By C. J. JENNINGS and A. B. WHITE, June, 1942, Page 50.
Welding, Nickel, Monel and Inconel Clad Steels — By W. G. THEISINGER, October, 1942, Page 75.
Welding Process, A New Hammered Resistance — By A. L. PFEIL, August, 1942, Page 42.
Woody Fractures — By R. K. KULP, February, 1942, Page 39.
1941, Developments in the Iron and Steel Industry during — By W. H. BURR, January, 1942, Page 26.